

FILE 'MEDLINE' ENTERED AT 14:27:10 ON 08 DEC 2005

L1           39 SEA NOS2A OR (NITRIC (A) OXIDE (A) SYNTHASE(A)2A) OR NOS2B OR  
             (NITRIC (A) OXIDE (A) SYNTHASE (A) 2B) OR NOS2C OR (NITRIC (A)  
             OXIDE (A) SYNTHASE (A) 2C)  
L2           399 SEA INTRON (A) 7 OR (INTRON7)  
L3           0 SEA L1 AND L2  
L4           7648 SEA INOS  
L5           1 SEA L2 AND L4  
             D IBIBAB  
L6           0 SEA BIOSIS CAPLUS

FILE 'CAPLUS' ENTERED AT 14:39:12 ON 08 DEC 2005

L7           32 SEA L1 AND L4  
L8           8619 SEA L1 OR L4  
L9           1 SEA L2 AND L8  
             D IBIB  
L10          124 SEA BIOSIS

FILE 'BIOSIS' ENTERED AT 14:45:15 ON 08 DEC 2005

L11          1 SEA L8 AND L9

FILE HOME

FILE MEDLINE

FILE LAST UPDATED: 6 DEC 2005 (20051206/UP). FILE COVERS 1950 TO DATE.

On December 19, 2004, the 2005 MeSH terms were loaded.

The MEDLINE reload for 2005 is now available. For details enter HELP  
RLOAD at an arrow prompt (=>). See also:

<http://www.nlm.nih.gov/mesh/>  
[http://www.nlm.nih.gov/pubs/techbull/nd04/nd04\\_mesh.html](http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html)

OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the  
MeSH 2005 vocabulary.

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

FILE CAPLUS

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FILE COVERS 1907 - 8 Dec 2005 VOL 143 ISS 24  
FILE LAST UPDATED: 7 Dec 2005 (20051207/ED)

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They are available for your review at:

<http://www.cas.org/infopolicy.html>

FILE BIOSIS

FILE COVERS 1969 TO DATE.  
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 7 December 2005 (20051207/ED)

=>

3/7/32 (Item 32 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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0013163064 BIOSIS NO.: 200100334903

Linkage of the human inducible nitric oxide synthase gene to type 1 diabetes

AUTHOR: Johannesen Jesper; Pie Angeles; Pociot Flemming; Kristiansen Ole Peter; Karlsen Allan Ertmann; Nerup Jorn (Reprint)

AUTHOR ADDRESS: Steno Diabetes Center, Niels Steensensvej 2, DK-2820, Gentofte, Denmark\*\*Denmark

JOURNAL: Journal of Clinical Endocrinology and Metabolism 86 (6): p 2792-2796 June, 2001 2001

MEDIUM: print

ISSN: 0021-972X

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: Exposure of human pancreatic islets to a mixture of cytokines induces expression of the inducible nitric oxide synthase (**iNOS**), impairs beta-cell function, and induces apoptosis. We performed a mutational scanning of all 27 exons of the human **NOS2** gene and linkage transmission disequilibrium testing of identified **NOS2** polymorphisms in a Danish nationwide type 1 diabetes mellitus (IDDM) family collection. Mutational screening was performed using \*\*\*PCR\*\*\*-amplified exons, followed by single stranded conformation **polymorphism** and verification of potential polymorphisms by sequencing. The transmission disequilibrium test was performed in an IDDM family material comprising 257 Danish families; 154 families were affected sibling pair families, and 103 families were simplex families. In total, 10 polymorphisms were identified in 8 exons, of which 4 were tested in the family material. A C/T single nucleotide \*\*\*polymorphism\*\*\* in exon 16 resulting in an amino acid substitution, Ser608Leu, showed linkage to IDDM in human leukocyte antigen DR3/4-positive affected offspring (P=0.008; corrected P=0.024). No other distorted transmission patterns were found for any other tested single nucleotide **polymorphism** or constructed haplotypes with the exception of those including data from exon 16. In conclusion, linkage of the human **NOS2** gene to IDDM in a subset of patients supports a pathogenic role of nitric oxide in human IDDM.

3/7/35 (Item 35 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
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0012271924 BIOSIS NO.: 199900531584

Nitric oxide synthase-2 (**NOS2**) promoter **polymorphism** in African-American subjects associates with systemic lupus erythematosus (SLE)

AUTHOR: Hill Bruce S (Reprint); Oates James C (Reprint); Molano Ivan D (Reprint); Gilkeson Gary S (Reprint)

AUTHOR ADDRESS: Charleston, SC, USA\*\*USA

JOURNAL: Arthritis and Rheumatism 42 (9 SUPPL.): pS308 Sept., 1999 1999

MEDIUM: print

CONFERENCE/MEETING: 63rd Annual Scientific Meeting of the American College of Rheumatology and the 34th Annual Scientific Meeting of the Association of Rheumatology Health Professionals Boston, Massachusetts, USA November 13-17, 1999; 19991113

ISSN: 0004-3591

DOCUMENT TYPE: Meeting; Meeting Abstract; Meeting Poster

RECORD TYPE: Citation  
LANGUAGE: English

3/7/61 (Item 3 from file: 144)  
DIALOG(R)File 144:Pascal  
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12780377 PASCAL No.: 96-0499556  
**PCR**-based gene targeting of the inducible nitric oxide synthase (**NOS2**) locus in murine ES cells, a new and more cost-effective approach  
RANDOLPH D A; VERBSKY J W; YANG L; FANG Y; HAKEM R; FIELDS L E  
Departments of Medicine and Pathology, Divisions of Cardiology and  
Biology and Biomedical Sciences, Washington University School of Medicine,  
St. Louis, MO 63110-1093, United States  
Journal: Transgenic research, 1996, 5 (6) 413-420  
ISSN: 0962-8819 Availability: INIST-26051; 354000066242420060  
No. of Refs.: 1 p.1/4  
Document Type: P (Serial) ; A (Analytic)  
Country of Publication: United Kingdom  
Language: English

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3/7/74 (Item 5 from file: 357)  
DIALOG(R)File 357:Derwent Biotech Res.  
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0247959 DBR Accession No.: 2000-02449 PATENT  
Novel method of diagnosis of disease or predisposition to disease such as  
Syndrome-X by detection of a four base insertion **polymorphism** -  
in the nitric-oxide-synthase gene for hypertension diagnosis using DNA  
**primer**  
AUTHOR: Griffiths L R  
CORPORATE SOURCE: Cambridge, UK.  
PATENT ASSIGNEE: Gemini-Res. 1999  
PATENT NUMBER: WO 9958715 PATENT DATE: 19991118 WPI ACCESSION NO.:  
2000-039117 (2003)  
PRIORITY APPLIC. NO.: GB 9810085 APPLIC. DATE: 19980511  
NATIONAL APPLIC. NO.: WO 99GB1450 APPLIC. DATE: 19990507  
LANGUAGE: English  
ABSTRACT: Diagnosis of diseases such as hypertension and Syndrome-X by  
detection of a 4 bp insertion in the nitric-oxide-synthase  
(EC-1.14.13.39, NOS) gene within the promoter region is new. Also  
claimed are: a method of diagnosis and treatment of hypertension; a  
method of predicting response to hypertension therapy; a method of  
diagnosing Syndrome-X or hypertension or predisposition to Syndrome-X  
or hypertension; a method of locating a further **polymorphism**  
correlated with a known **polymorphism** in or near the promoter  
region of an **iNOS** gene; and a kit for the diagnosis of Syndrome-X  
or predisposition to Syndrome-X containing one or more DNA primers. The  
method can be use to diagnosis and identify individuals having a  
predisposition or susceptibility to essential hypertension and also to  
the group of conditions that contribute to Syndrome-X as well as  
obesity, non-insulin dependent diabetes, atherosclerosis, dyslipaemia,  
vascular and coronary heart disease. (22pp)

3/7/81 (Item 7 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
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131347564 CA: 131(26)347564f PATENT  
Polymorphism in a nitric oxide synthase gene and use in diagnosis of  
Syndrome X or hypertension  
INVENTOR(AUTHOR): Griffiths, Lynette Robyn  
LOCATION: UK,  
ASSIGNEE: Gemini Research Limited  
PATENT: PCT International ; WO 9958715 A1 DATE: 19991118  
APPLICATION: WO 99GB1450 (19990507) \*GB 9810085 (19980511)  
PAGES: 24 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-001/68A  
DESIGNATED COUNTRIES: AE; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH;  
CN; CU; CZ; DE; DK; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS;  
JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX;  
NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; UA; UG; US;  
UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM  
DESIGNATED REGIONAL: GH; GM; KE; LS; MW; SD; SL; SZ; UG; ZW; AT; BE; CH;  
CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG;  
CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG  
SECTION:  
CA203003 Biochemical Genetics  
CA214XXX Mammalian Pathological Biochemistry  
IDENTIFIERS: polymorphism nitric oxide synthase gene diagnosis Syndrome X  
hypertension, NOS2A promoter polymorphism PCR diagnosis Syndrome X  
hypertension  
DESCRIPTORS:  
Heart,disease...  
angina pectoris, syndrome X; polymorphism in nitric oxide synthase gene  
and use in diagnosis of Syndrome X or hypertension  
Test kits...  
comprising set of reference markers, reference gel, and reference chart;  
polymorphism  
in nitric oxide synthase gene and use in diagnosis of Syndrome X or  
hypertension  
Diagnosis...  
genetic; polymorphism in nitric oxide synthase gene and use in  
diagnosis of Syndrome X or hypertension  
Chromosome...  
human 17, 17cen-q11.2, gene NIS2A on, Syndrome X and; polymorphism in  
nitric oxide synthase gene and use in diagnosis of Syndrome X or  
hypertension  
Repetitive DNA...  
in NOS2A promoter, 4 base insertion in; polymorphism in nitric oxide  
synthase gene and use in diagnosis of Syndrome X or hypertension  
Mutation...  
insertion, four base; polymorphism in nitric oxide synthase gene and  
use in diagnosis of Syndrome X or hypertension  
Gene,animal...  
NOS2A, inducible; polymorphism in nitric oxide synthase gene and use in  
diagnosis of Syndrome X or hypertension  
Promoter(genetic element)...  
NOS2A, repeat polymorphism in; polymorphism in nitric oxide synthase  
gene and use in diagnosis of Syndrome X or hypertension  
Blood analysis... Genetic methods... Genetic polymorphism...  
Genotyping(method)... Hypertension... PCR(polymerase chain reaction)...  
Primers(nucleic acid)... Susceptibility(genetic)...  
polymorphism in nitric oxide synthase gene and use in diagnosis of  
Syndrome X or hypertension  
Genetic element...  
tsp (transcription start point), insertion located between positions  
-891 and -575 5' to; polymorphism in nitric oxide synthase gene and use  
in diagnosis of Syndrome X or hypertension  
CAS REGISTRY NUMBERS:  
125978-95-2 NOS gene for; polymorphism in nitric oxide synthase gene and

use in diagnosis of Syndrome X or hypertension  
250381-84-1 250381-85-2 NOS2A promoter primer; polymorphism in nitric  
oxide synthase gene and use in diagnosis of Syndrome X or hypertension  
250381-83-0 nucleotide sequence; polymorphism in nitric oxide synthase  
gene and use in diagnosis of Syndrome X or hypertension

3/7/82 (Item 8 from file: 399)  
DIALOG(R)File 399:CA SEARCH(R)  
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131318344 CA: 131(24)318344d JOURNAL  
Quantification of iNOS mRNA with Reverse Transcription Polymerase Chain  
Reaction Directly from Cell Lysates  
AUTHOR(S): Han, Bing; DuBois, Debra C.; Boje, Kathleen M. K.; Free,  
Stephen J.; Almon, Richard R.  
LOCATION: Department of Biological Sciences, State University of New York  
at Buffalo, Amherst, NY, 14260, USA  
JOURNAL: Nitric Oxide DATE: 1999 VOLUME: 3 NUMBER: 4 PAGES: 281-291  
CODEN: NIOXF5 ISSN: 1089-8603 LANGUAGE: English PUBLISHER: Academic  
Press  
SECTION:  
CA203001 Biochemical Genetics  
CA209XXX Biochemical Methods  
CA213XXX Mammalian Biochemistry  
IDENTIFIERS: quant iNOS mRNA RTPCR cell lysate  
DESCRIPTORS:  
Mutation...  
deletion, if deletion construct within 10% of wild type, the rtPCR  
efficiencies are identical; quantification of iNOS mRNA with RT-PCR  
directly from cell lysates  
Inflammation...  
gene expression during; quantification of iNOS mRNA with RT-PCR  
directly from cell lysates  
Animal cell line...  
J774.2; quantification of iNOS mRNA with RT-PCR directly from cell  
lysates  
mRNA...  
quantification of iNOS mRNA with RT-PCR directly from cell lysates  
Genetic methods...  
single step phenol/chloroform/ether extraction of mRNA; quantification of  
iNOS mRNA with RT-PCR directly from cell lysates  
CAS REGISTRY NUMBERS:  
125978-95-2 inducible; quantification of iNOS mRNA with RT-PCR directly  
from cell lysates  
9001-99-4 removal, effects of the extraction on iNOS mRNA recovery and  
cytosolic RNase removal; quantification of iNOS mRNA with RT-PCR  
directly from cell lysates  
?